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BIBLIOGRAPHY OF
RUSSIAN MATHEMATICS
BOOKS

BIBLIOGRAPHY OF RUSSIAN MATHEMATICS BOOKS

By GEORGE E. FORSYTHE

PUBLISHERS' PREFACE

The Publishers wish to thank Mathematical Reviews for kindly allowing them to copy a part of its table of transcriptions of the Cyrillic alphabet. It should be noted, incidentally, that whereas the Library of Congress, whose transcription system is essentially followed herein, transcribes certain letters of the Cyrillic alphabet as $\widehat{zh}$, $\widehat{kh}$, $\widehat{ch}$, $\widehat{sh}$, and $\widehat{shch}$, this book transcribes them simply as zh, kh, ch, sh, and shch, respectively. Since h does not correspond to any letter of the Cyrillic alphabet, this difference should not trouble those used to the Library of Congress system.

The Publishers also wish to thank publicly those scientists and librarians who have been kind enough to suggest titles to be included in their continuing program of Russian scientific translations.

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PREFACE

The present Survey has grown out of a report written in 1952 at the National Bureau of Standards, Los Angeles, but is very much amplified, and revised, in its present form. It is intended to be a list, arranged both by author and subject, of all known Russian mathematical books published since 1930 that a practising mathematician might wish to consult, if he could read them. The purposes and scope of the Survey are stated in more detail in the Introduction.

In pursuing this bibliographical study I have been continually stimulated by the interest and help of Prof. I. S. Sokolnikoff, who understands so well the value of Soviet contributions to world mathematics. Conversations with him convinced me several years ago of the importance of making Soviet work known as widely as possible.

I am grateful to Dr. J. V. Wehausen for his continuing assistance in bibliographical matters, and for encouraging me to use the files of "Mathematical Reviews." I wish also to thank the following persons for having submitted material for this Survey: Mr. A. Buschke, Dr. J. M. Danskin, Prof. A. T. Lonseth, Mr. Jerry Shmoys, Dr. M. Yanowitch, and any one whom I may have unintentionally omitted.

I want to acknowledge the painstaking collating and typing of this difficult material by Mrs. Ruthanne Clark, Mrs. Vendla Gordanier, and Mrs. Gertrude Reider. The accuracy attained would not have been possible without them; the remaining errors are almost certainly mine.

New York University
    November 1955   George E. Forsythe

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INTRODUCTION

Perhaps even more than mathematicians in Europe generally, those in Russia have traditionally devoted much effort to the preparation of good expository monographs. Since World War II there has been a great increase in this work, resulting in a mathematical literature extensive in quantity and high in quality. Among others, some of the very best research men are engaged in this work. The exposition, being usually leisurely and full of examples, is well suited to self instruction. The size of the editions is large.

While many Russian books have counterparts in the Western literature, many do not. I shall select for mention four related to my own field — numerical analysis. The first, L. V. Kantorovich and V. I. Krylov's "Approximate Methods of Higher Analysis," is unparalleled. The third edition (1950) of 5000 copies includes in its 695 pages numerous references to the world literature and many numerical examples, elegantly explained in great detail. The seven chapters cover the following: 1. Solution of partial differential equations by infinite series; 2. Approximate solution of Fredholm integral equations; 3. Difference methods; 4. Variational methods; 5. Conformal mapping of regions; 6. Application of conformal mapping to the solution of basic problems for canonical regions; 7. Schwarz's method.

There are two excellent recent books by S. G. Mikhlin: "Direct Methods In Mathematical Physics" (1950), and "The Problem of the Minimum of a Quadratic Functional" (1952). Both of these are self-contained and begin with background material in Hilbert space. The first deals concretely with the methods of Ritz and Galerkin, the method of least squares, and the method of lines, and includes numerous concrete examples. The second book gives more attention to associated theoretical questions.

Finally, there is V. N. Faddeeva's "Computational Methods of Linear Algebra" (1950). The book treats various

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direct and iterative methods of finding eigenvalues and inverses of matrices. The treatment is moderately comprehensive and is notably elegant. The first chapter is a splendid introduction to the algebra and analysis of finite matrices, and the author has often used this chapter as a textbook.

It seems clear that many of the Russian mathematical books would be of the greatest value to mathematicians and students, if only they were readily available. There seem to be three difficulties to be overcome here. First and most fundamental is ignorance of the existence of this literature. Second, people are not generally aware of how to obtain Soviet books and periodicals. Third, there is the language barrier.

I believe the third difficulty will take care of itself as soon as the first two are met. Enough mathematicians will learn Russian when the need is sufficiently evident. In the meantime a considerable number of these books is appearing in German translation and some in English.

As for the second difficulty, getting Soviet material is not expensive, but does require effort and time. Those interested should consult a librarian with experience in Soviet acquisitions.

And now for the first difficulty. "Mathematical Reviews" is, of course, doing superlative work in collecting and reviewing books and articles, and the majority of the books listed below have been noted or reviewed in that publication. Because those reviews are spread through 16 volumes of "Mathematical Reviews, the compiler feels that it will prove worth while to bring these titles together in a single list. It is hoped thus to keep this literature before Western mathematicians and thereby contribute to its use. I know of no comparable list.

It is obvious from the journals that Soviet workers are reading the Western literature much more closely than most of us follow their work. Moreover, they have translated most of the best Western books and many articles into Russian. It seems to me inevitable that such a selective diffusion of mathematics, if long sustained, will result in most Soviet mathematicians knowing more about the subject than most of us. In this regard I am

more concerned about applied mathematics than pure mathematics
for two reasons. First, I believe that through "Mathematical
Reviews" the new ideas in pure mathematics are transmitted to
us better than those in applied mathematics. Second, the Russians
seem to enjoy a better position relative to the West in applied
mathematics than in pure mathematics. (Professor Sokolnikoff,
however, is concerned equally about pure and applied mathematics.)

To get a picture of the recent expansion in research and
education behind the large growth in Soviet scientific publication,
one should consult the following articles on Soviet science and
technology: (i) I. S. Sokolnikoff, "Organized Research in the USSR,"
"Scientific Monthly," Vol. 72 (1951), pp. 164-168; (ii) Benjamin
Fine, "New York Times," November 7, 1954, Section I, p. 1;
(iii) Eric Ashby, "New York Times Magazine," April 18, 1954,
p. 13; (iv) Anonymous, "Newsweek" March 1, 1954, pp. 46-50.

The rules for admitting a book to the Survey are detailed
below. Although the list includes over 600 titles, it is certainly
incomplete. The author's main sources have been the following:

(1) The two bibliographical books, "Mathematics in the
USSR for the Thirty Years 1917 - 1947" (see below under Kurosh),
and "Mechanics in the USSR for the Thirty Years 1917 - 1947"
(see below under V. Z. Vlasov).

(2) The book-lists in those numbers of "Uspekhi Mate-
maticheskikh Nauk" since 1946 that are available in Los Angeles.

(3) "Mathematical Reviews" and the master card file
in its editorial office.

(4) The Russian collection of the Brown University
Science Library, begun by the late Professors R. C. Archibald
and J. D. Tamarkin.

(5) Bibliographies in recent Russian books and articles.

(6) Book catalogues.

(7) The Russian collection of the Numerical Analysis
Research library at the University of California, Los Angeles.

The subject matter of the books listed is mathematics,
pure and applied, including tables beyond the most elementary,
but excluding descriptive geometry. There are a few titles on

quantum mechanics and other branches of mathematical physics, and more on mechanics, mathematical machines and nomography, but these topics are far from completely covered. For textbooks, the subject matter is more advanced than calculus.

The list is confined to books, excluding dissertations. Because of their mathematical interest, most of the serial monographs (Trudy) of the Steklov mathematical institute have also been included. The books in the list have been published (or reprinted) in Russian or Ukrainian since 1930. Translations into Russian are omitted. Books have been judged on whatever evidence was available.

Of the many methods for transliterating the Cyrillic alphabet, the Library of Congress (LC) system has been selected, because of its convenience for librarians. It is listed below, together with the system now used by "Mathematical Reviews" (MR). For the systems used earlier by "Mathematical Reviews" see that journal, Vol. 7 (1946), p. 619.

The reader should be warned that Soviet publishers are rather informal in dating books, numbering editions, changing titles, and so forth. Thus the second edition of a book may appear with a changed title, while, on the other hand, the third edition may be little more than a reprint of the second edition with the date changed. These factors limit the ultimate precision of any bibliography of Russian books.

TRANSCRIPTION SYSTEM

Russian Letter Cap. Ital	This book U.S. Library of Congress	Zentralblatt für Mathematik	Bulletin Analytique	Applied Mechanics Reviews	Mathematical Reviews
А a	a	a	a	a	a
Б б	b	b	b	b	b
В в	v	v	v	v	v
Г г	g	g	g	g	g
Д д	d	d	d	d	d
Е е	e	e	e	e	e
Ё ё	ë	ë	ë	ë	ë
Ж ж	zh	ž	ž	zh	ž
З з	z	z	z	z	z
И и	i	i	i	i	i
Й й	ĭ	j	j	i	j
К к	k	k	k	k	k
Л л	l	l	l	l	l
М м	m	m	m	m	m
Н н	n	n	n	n	n
О о	o	o	o	o	o
П п	p	p	p	p	p
Р р	r	r	r	r	r
С с	s	s	s	s	s
Т т	t	t	t	t	t
У у	u	u	u	u	u
Ф ф	f	f	f	f	f
Х х	kh	ch	kh	kh	h
Ц ц	ts	c	c	ts	c
Ч ч	ch	č	ch	ch	č
Ш ш	sh	š	sh	sh	š
Щ щ	shch	šč	shch	shch	šč
Ъ ъ	"	"	"	"	"
Ы ы	y	y	y	i	y
Ь ь	'	'	'	'	'
Э э	ë	e	e	é	é
Ю ю	iu	ju	ju	yu	yu
Я я	ia	ja	ja	ya	ya

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ABBREVIATIONS

M.	Moscow
L.	Leningrad
G.	Gosudarstvennoe izdatel'stvo tekhniko-teoreti-cheskoĭ literatury,
	abbreviated as "Gostekhizdat" (State publisher of technical-theoretical literature) Moscow or Leningrad, or both. Earlier abbreviations were: ONTI, GTTI, etc.
Izd. AN SSSR	Publishing house of the Akademiĭa nauk (Academy of Sciences) of the USSR
Izd. AN Ukr. SSR	Publishing house of the Akademiĭa nauk (Academy of Sciences) of the Ukranian SSR
Izd. univ.	Izdatel'stvo universiteta (Publishing house of the university)
Trudy mat. inst. Steklova	Akademiĭa nauk SSSR. Leningrad. Matematicheskiĭ institut imeni V. A. Steklova., Trudy
pp.	pages
c.	(number of) copies printed, according to information given in the book or in Soviet bibliographical material.
MR	Mathematical Reviews
Zb	Zentralblatt für Mathematik und ihre Grenzgebiete
MTAC	Mathematical Tables and Other Aids to Computation

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   Vol. 3 (Hydrodynamics), 1936, 486 pp., 3000 c.;
   Vol. 4 (Waves, viscosity, fluid reaction), 1937, 327 pp., 3000 c.
   Vol. 5 (Vortices, airfoil theory, aviation), 1937, 490 pp., 3000 c
   Vol. 6 (Propellers, windmills, ventilators, wind tunnels), 430 pp.
   Vol. 7 (Hydraulics), 1937, 410 pp.; 3000 c.;
   Vol. 8 (Elasticity, railways, autos), 1937, 291 pp., 3000 c.;
   Vol. 9 (Mathematics, astronomy, reports, lectures, character-
      istics and biography), 1937, 450 pp., 3000 c.

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3000 c.;

Issue 3 (Theoretical mechanics), 1939, 420 pp., 3000 c.;

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mics, theory of attraction), 1949, 984 pp., 2500 c.;

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> Vol. 1, 1931, 433 pp., 1000 c.;
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Subject Index

SUBJECT INDEX

The following categories of subjects have been adapted
from the monthly table of contents of "Mathematical
Reviews." Placement of the books in their respective.
categories has usually been on the basis of their titles.

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Kol'man; Kolmogorov b; Kotel'nikov and Fok; Mar-
kushevich b; Nestorovich; Otradnykh a, b; Rybkin and
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a) Bibliography

Akademiia nauk SSSR b, c, d, e; Anonymous a, c; Geras-
imova; Golubev and Leibenzon; A.N. Krylov a; Kurosh
c; Kurosh and Markushevich and Rashevskii; Nauchno-
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b) Collected Papers

Akademiia nauk SSSR a, f; Aleksandrov and Markushe-
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lygin a, b; N.G. Chebotarev e; Chebyshev d, e, g;
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2) FOUNDATIONS

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3) ALGEBRA

Aleksandrov and Markushevich and Khinchin; N. G. Chebotarëv c, d, e; Chebyshev b; Dubnov; Faddeev and Sominskiĭ; Faddeeva; Gantmakher; Gantmakher and Kreĭn; Gel'fand; Grave b; Gurevich; Kreĭn and Naĭmark; Kudriavtseev; Kurosh c, d; Lappo-Danilevskiĭ; Liapin; Lobachevskiĭ; Maltsev; Minorskiĭ and Uranovskiĭ; B. N. Okunev a; L. IA. Okunev c; Ostrogradskiĭ a; Shakhno (?); Shirokov; Sushkevich c; S. P. Vinogradov.

a) Abstract Algebra

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b) Theory of groups

P. S. Aleksandrov a; N. G. Chebotarëv b; Gel'fand and Naĭmark; Kurosh a; Novikov; Pontriagin a; Raĭkov; Shmidt b, c; Sushkevich b.

4) NUMBER THEORY

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§5. ANALYSIS

5) ANALYSIS

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and ĬAglom; Khinchin f, k; Korovkin; Kryzhanovskiĭ;
Lobachevskiĭ; Mitropol'skiĭ; Nemytskiĭ and Sludskaĭa
and Cherkasov; Ostrogradskiĭ a; V. I. Smirnov a.

a) Calculus

Aleksandrov and Markushevich and Khinchin; Berman;
Dubnov; Fikhtengol'ts and Natanson; Glivenko a; Kochin
b; I. V. Natanson; Ryshik and Gradshteĭn; G. E. Shilov
c; Timofeev; Tolstov a.

b) Theory of Sets, Theory of Functions of a Real Variable

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skiĭ; Lavrent'ev; Lavrent'ev and Shabat; Markushevich
a, b, c; Privalov d, e; Shaginĭan; V. I. Smirnov b;
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d) Theory of Series

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e) Fourier Series and Generalizations, Integral Transforms

Bari; Danilevskiĭ and Éfros; Ditkin and Kuznetsov;
Kantorovich a; Kontorovich; Leont'ev; Levitan b;
Lopshits; Lur'e b; Luzin d; Men'shov; Moiseev a;
Nikol'skiĭ; Privalov a; Raĭkov; Tolstov b; I. M.
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f) Polynomials, Polynomial Approximations

Akhiezer b; S. N. Bernshteĭn a, c; Chebyshev f; Geronimus a, b; Goncharov a; Kharadze; Leont'ev; Nemchinov; Remez; V. G. Vlasov.

g) Special Functions

Akhiezer c; Faddeeva and Gavurin; Kheĭfeĭs; R. O. Kuz'min b; N. N. Lebedev b; Liusternik and Akushskiĭ and Ditkin; Rozet; Ryshik; Samoĭlova-ĬAkhontova; Sergeev; Shpil'raĭn; Shtaerman a; Sikorskiĭ b; Sonin; Zhuravskiĭ.

h) Harmonic Functions, Potential Theory

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i) Differential Equations

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j) Difference Equations, Special Functional Equations

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k) Integral Equations

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m) Calculus of Variations

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n) Theory of Probability

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7) GEOMETRY

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8) NUMERICAL AND GRAPHICAL METHODS

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p. 54. 1. 21. Add: LAVRENT'EV. M. A. and SHABAT. B. V.
Metody teorii funkt͡siĭ kompleksnogo peremennogo
Methods of the theory of functions of a complex variable
G.. 1951. 606 pp.. 10,000 c. (MR Vol. 14. p. 457.)

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